



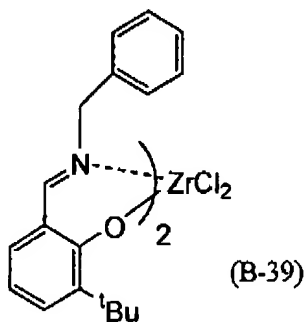
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## Experiment

### Experiment 1

#### [Preparation of a solid catalyst component]

Catalyst preparation was carried out in the same manner as described in Example 2 of the present specification except that the following compound which is the same as compound (B-39) of Fujita (USP 6,309,997, column 208) was used instead of the compound (C2).



#### [Polymerization]

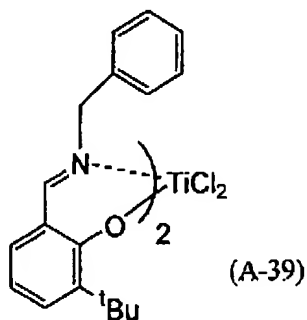
Heptane 370 ml was charged in a 1 liter autoclave made of a stainless steel and sufficiently purged with nitrogen, and the liquid phase and the gas phase were saturated with ethylene. Then, 80 g of 1-butene was charged and the autoclave was heated to 80°C. After that, ethylene was fed to the autoclave to maintain total pressure of 8 kg/cm<sup>2</sup>-G. Subsequently, triisobutylaluminum 0.5 mmol and the solid catalyst component prepared above 0.001 mmol in terms of Zr atom were added to carry out polymerization while feeding ethylene to maintain total pressure at 8 kg/cm<sup>2</sup>-G for 60 minutes at 80°C.

The obtained polymer suspension was filtered by a glass filter, washed with hexane and vacuum dried at 80°C for 10 hours. 28.8 g of ethylene/1-butene copolymer was obtained, and its intrinsic viscosity was 2.05 dl/g, and 1-butene content determined by Infrared

spectrum was 1.82 mol%. Molecular weight distribution measured by Gel Permeation Chromatograph (GPC) was 10.5.

### Experiment 2

Catalyst preparation and polymerization were carried out in the same manner as described in Example 2 of the present specification except that the following compound which is the same as compound (A-39) of Fujita (USP 6,309,997, column 208) was used instead of the compound (C2). However, only trace amount of polymer was obtained.



From the results of the above experiments, and based on my knowledge and experience on Olefin Polymerization Chemistry, I conclude that:

The compounds A-39 and B-39 of Fujita are not effective to produce the ethylene (co)polymer according to the present invention.

The undersigned declares further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false

statements and the like so made are punishable by fine or imprisonment,  
or both, under Section 1001 of Title 18 of the United States Code  
and that such willful false statements may jeopardize the validity  
of the application or any patent issuing thereon.

Respectfully submitted,

Respectfully submitted,

this      day of June, 2003

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MITANI, Makoto